

This listing of claims will replace all prior versions, and listings, of claims in the application:

II. Listing of Claims

Claim 1 (Canceled)

Claim 2 (Currently Amended): The method of Claim ~~[[1,]]~~ 4, wherein the VEGF receptor is part of a human bone cell.

Claim 3 (Currently Amended): The method of Claim ~~[[1,]]~~ 4, wherein the VEGF receptor is part of a human vascular endothelial cell.

Claim 4 (Currently Amended): A ~~[[The]]~~ method ~~[[of Claim 1,]]~~ for activating a vascular endothelial growth factor (VEGF) receptor of one or more cells, the method comprising:

positioning an electromagnetic field generator in proximity to a VEGF receptor such that the flux of an electromagnetic field generated by the electromagnetic field generator will extend through the VEGF receptor; and

generating an electromagnetic field burst using the electromagnetic field generator having a rate of fluctuation that activates the VEGF receptor,

wherein the electromagnetic field burst has a burst period of approximately 26 msec, and

wherein the ~~[[predetermined]]~~ rate of fluctuation is ~~[[approximately 3831 Hertz]]~~ about 3800 Hertz to 3900 Hertz.

Claim 5 (Currently Amended): The method of Claim ~~[[1,]]~~ 4, wherein VEGF receptors of a plurality of cells are activated by the electromagnetic field.

Claim 6 (Currently amended): The method of Claim ~~[[1,]]~~ 4, wherein the electromagnetic field is generated such that the electromagnetic field causes ~~[[particular biological effects]]~~ cell growth to occur that ~~[[are]]~~ is substantially similar to ~~[[biological effects]]~~ cell growth that occurs ~~[[occur]]~~ when a VEGF receptor is activated by a VEGF ligand.

Claims 7-17 (Canceled)

Claim 18 (New): A method for activating a vascular endothelial growth factor (VEGF) receptor of one or more cells, the method comprising:

positioning an electromagnetic field generator in proximity to a VEGF receptor such that the flux of an electromagnetic field generated by the electromagnetic field generator will extend through the VEGF receptor; and

generating an electromagnetic field burst using the electromagnetic field generator having a rate of fluctuation that activates the VEGF receptor,

wherein the electromagnetic field burst has a burst period of approximately 5.5 msec, and

wherein the rate of fluctuation is about 3800 Hertz to 3900 Hertz.

Claim 19 (New): The method of Claim 18, wherein the VEGF receptor is part of a human bone cell.

Claim 20 (New): The method of Claim 18, wherein the VEGF receptor is part of a human vascular endothelial cell.

Claim 21 (New): The method of Claim 18, wherein VEGF receptors of a plurality of cells are activated by the electromagnetic field.

Claim 22 (New): The method of Claim 18, wherein the electromagnetic field is generated such that the electromagnetic field causes cell growth to occur that is substantially similar to cell growth that occurs when a VEGF receptor is activated by a VEGF ligand.

Claim 23 (New): A method for activating a vascular endothelial growth factor (VEGF) receptor of one or more cells, the method comprising:

positioning an electromagnetic field generator in proximity to a VEGF receptor such that the flux of an electromagnetic field generated by the electromagnetic field generator will extend through the VEGF receptor; and

generating an electromagnetic field burst using the electromagnetic field generator having a rate of fluctuation that activates the VEGF receptor,

wherein the electromagnetic field burst has a burst period of approximately 26 msec, and

wherein the rate of fluctuation is about 62 kHz to 63 kHz.